

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L15	15987	((331/1,16,37,34,179) or (327/156) or (375/355,294,371-377) or (455/255,260)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2010/01/07 17:02
L16	227	15 and (PLL same (switch\$5 with band))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/07 17:03
L17	7	15 and (PLL same (switch\$5 with band)) same (threshold with (range or window))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/07 17:03
S1	1	"US 20090141825"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2009/06/08 11:28
S2	73	"375/294".CCLS.	US-PGPUB; USPAT	OR	ON	2009/06/08 11:28
S3	2	((("6469584") or ("5497127")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2009/06/08 11:40
S4	12	("5272453"   "5382922"   "5446417"   "5477198"   "5629652"   "5757240"   "5894246"   "5903195"   "5952892"   "5955928").PN. OR ("6469584").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/08 11:54
S5	3462	pll and (narrow-band or narrow \$2band or narrow adj1 band)	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/08 12:55
S6	1	pll and (narrow-band or narrow \$2band or narrow adj1 band) and VCO and (amplitude near window) with (high\$3 or upper) same (low\$3 or low)	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/08 12:56
S7	5	pll and VCO and (amplitude near window) with (high\$3 or upper) same (low\$3 or low)	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/08 12:56
S8	112	pll and VCO and (window) with (high\$3 or upper) same (low\$3 or low) same compar\$5	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/08 12:57

S9	59	pll and VCO and (window) with (high\$3 or upper) same (low\$3 or low) same compar\$5 and @ad<="20031023"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/08 13:00
S10	0	compare near VCO with window same amplitude same (higher or upper) same lower and @ad<="20031023"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/08 13:10
S11	0	compare near VCO with window and amplitude same (higher or upper) same lower and @ad<="20031023"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/08 13:10
S12	5	PLL and VCO and (amplitude near window) and (higher or upper) same (low\$3) and compar\$5 same (control adj voltage) and @ad<="20031023"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/08 13:11
S13	93	PLL and VCO and (amplitude) and (window) and (higher or upper) same (low\$3) and compar\$5 same (control adj voltage) and @ad<="20031023"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/08 13:12
S14	89	PLL and VCO and (narrow adj1 band or narrow-band or narrow \$2band) and upper same lower same compar\$5 and @ad<="20031023"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/08 14:38
S15	25	("6426680").URPN.	USPAT	OR	ON	2009/06/08 15:27
S16	17	("20010020875"   "20030050029"   "20030206042"   "20050174185"   "20050179501"   "20050264330"   "20060267699"   "20070008011"   "20080100385"   "5257294"   "5341405"   "5677648"   "5802450"   "6054903"   "6426680"   "6803829"   "7164322").PN. OR ("7539473").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/09 09:21
S17	6	("20020089383"   "20050226357"   "6133797"   "6545545").PN. OR ("7164322").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/09 09:33
S18	3	((("6545545") or ("6133797") or ("20020089383")).PN.	US-PGPUB; USPAT; USOCR, EPO; JPO	OR	OFF	2009/06/09 09:49

S19	2	((("6469584") or ("5497127") or ("200520175769")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2009/06/09 10:31
S20	12	("5272453"   "5382922"   "5446417"   "5477198"   "5629652"   "5757240"   "5894246"   "5903195"   "5952892"   "5955928").PN. OR ("6469584").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/09 10:32
S21	82	vco and (tuning or tun\$3 or calibration) and PLL and (comparing or comparator) and (multi-band or multi adj1 band) and (band near (select\$5 or switch\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/09 10:34
S22	110	vco and (tuning or tun\$3 or calibration or rang\$5) and PLL and (comparing or comparator) and (multi-band or multi adj1 band) and (band near (select \$5 or switch\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/09 10:35
S23	45	vco and (tuning or tun\$3 or calibration or rang\$5) and PLL and (comparing or comparator) and (multi-band or multi adj1 band) and (band near (select \$5 or switch\$5)) and @ad<="20031023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/09 10:35
S24	47	(vco or (voltage adj controlled adj oscillator)) and (tuning or tun\$3 or calibration or rang\$5) and PLL and (comparing or comparator) and (multi-band or multi adj1 band) and (band near (select\$5 or switch\$5)) and @ad<="20031023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/09 10:36
S25	287	(vco or (voltage adj controlled adj oscillator)) and (tuning or tun\$3 or calibration or rang\$5) and PLL and (comparing or comparator) and (band near (select\$5 or switch\$5)) and @ad<="20031023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/09 10:36
S26	62	(vco or (voltage adj controlled adj oscillator)) and (tuning or tun\$3 or calibration or rang\$5) and PLL and (window) and (band near (select\$5 or switch \$5)) and @ad<="20031023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/09 11:13

S27	708	((vco or (voltage adj controlled adj oscillator)) and (tuning or tun\$3 or calibration or range)). ti. and @ad<="20031023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/09 11:14
S28	263	((vco or (voltage adj controlled adj oscillator)) and (tuning or tun\$3 or calibration or range)). ti. and PLL and @ad<="20031023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/09 11:15
S29	263	((vco or (voltage adj controlled adj oscillator)) same (tuning or tun\$3 or calibration or range)). ti. and PLL and @ad<="20031023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/09 11:15
S30	39	((vco or (voltage adj controlled adj oscillator)) same (tuning or tun\$3 or calibration or range)). ti. and PLL and ((band or frequency) near (switch\$5 or select\$5)) and @ad<="20031023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/09 11:15
S31	283	(narrow-band or narrow adj1 band) and (vco or (voltage adj controlled adj oscillator)) same (tuning or tun\$3 or calibration or range)and PLL and ((band or frequency) near (switch\$5 or select\$5)) and @ad<="20031023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/09 11:22
S33	43	(narrow-band or narrow adj1 band) and (vco or (voltage adj controlled adj oscillator)) same (tuning or tun\$3 or calibration or range)and PLL and ((band or frequency) near (switch\$5 or select\$5)) and compar\$5 with window and @ad<="20031023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/09 11:22
S34	21	((HARALD) near2 (JACOBSSON)).INV.	US-PGPUB; USPAT	OR	ON	2009/06/09 11:27
S35	1	((EMANUELE) near2 (LOPELLI)).INV.	US-PGPUB; USPAT	OR	ON	2009/06/09 11:27
S36	2913	"375/376".CCLS.	US-PGPUB; USPAT	OR	ON	2009/06/09 11:27
S37	40913	S36 and VCO or (voltage adj controlled adj oscillator) and @ad<="20031023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/09 11:28

S38	1545	S36 and (VCO or (voltage adj controlled adj oscillator)) and @ad<="20031023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/09 11:28
S39	67	S38 and (tuning or rang\$3 or calibration) and window same compar\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/09 11:28
S40	357	"331"/\$.ccls. and (vco near (tun\$4 or calibrat\$4 or rang\$5)) same ((band or frequency) with (select\$4 or switch\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/09 11:50
S41	43	"331"/\$.ccls. and (vco near (tun\$4 or calibrat\$4 or rang\$5)) same ((band or frequency) with (select\$4 or switch\$4)) and (window near (detect\$3 or compar\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/09 11:51
S42	6	("20020089383"   "20050226357"   "6133797"   "6545545").PN. OR ("7164322").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/09 11:59
S43	1	("6020708").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2009/06/09 12:00
S44	31	(narrow-band or (narrow-band)) same (PLL or vco) same (tuning or calibration)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/09 12:11
S45	5	("20020089383"   "6133797"   "6545545"   "6856205").PN. OR ("7030711").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/09 12:13
S46	1	("6133797").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2009/06/09 12:34
S47	6	("20020089383"   "20050226357"   "6133797"   "6545545").PN. OR ("7164322").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/09 12:46
S48	103	vco and narrow\$3 near window	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/09 12:47
S49	8	vco and (narrow\$3 near window) same compar\$5 with (tun\$3 or control\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/09 12:48

S50	32	((THOMAS) near2 (KNOTTS)). INV.	US-PGPUB; USPAT	OR	ON	2009/06/09 13:37
S51	55	((GUNTER) near2 (STEINBACH)). INV.	US-PGPUB; USPAT	OR	ON	2009/06/09 13:37
S52	761	(VCO or (voltage adj controlled adj oscillat\$5)) same (tuning or calibration) same (narrow or wide or smaller) with range	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/09 15:43
S53	773	(VCO or (voltage adj controlled adj oscillat\$5)) same (tuning or calibration) same (narrow or wide or smaller) with (range or window or limit)	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/09 15:43
S54	55	(VCO or (voltage adj controlled adj oscillat\$5)) same (tuning or calibration) same (narrow or wide or smaller) with (range or window or limit) same (fine near (tuning or calibration))	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/09 15:44
S55	17	(VCO or (voltage adj controlled adj oscillat\$5)) same (tuning or calibration) same (narrow or wide or smaller) with (range or window or limit) same (fine near (tuning or calibration)) and @ad<="20031023"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/09 15:44
S56	6	(fine near (tuning or calibration)) same VCO same (narrow near (range or limit or window)) and @ad<="20031023"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/09 15:47
S57	45	(VCO near (tuning or calibration or adjust\$4)) same (narrow-band or (narrow adj1 band)) same (range or limit or window) and @ad<="20031023"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/09 15:52
S58	150	VCO same (narrow or smaller) near (range or limit or window) and @ad<="20031023"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/09 16:33
S59	499	VCO same (narrow or smaller) with (range or limit or window) and @ad<="20031023"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/09 16:36
S60	113	VCO same (narrow or smaller) with (range or limit or window) same compar\$5 and @ad<="20031023"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/09 16:36
S61	1	(multi-window) same (VCO near (calibration or tuning or range))	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/10 10:01
S62	110	(window) same (VCO near (calibration or tuning or range))	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/10 10:01

S63	100	(window) same (VCO near (calibration or tuning or range)) and PLL	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/10 10:01
S64	61	(window) same (VCO near (calibration or tuning or range)) and PLL and @ad<="20031023"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/10 10:01
S65	3	((smaller or narrow) with (window)) same (VCO near (calibration or tuning or range)) and PLL and @ad<="20031023"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/10 10:02
S66	2	(multi adj1 window) same VCO	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 10:20
S67	8	(multi adj1 window) and VCO	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 10:20
S68	1	(multi adj1 window) and (VCO with (tuning or calibration))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 10:21
S69	3	((multipl\$3 or multi or plural) adj1 window) and (VCO with (tuning or calibration))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 10:21
S70	13	(MWC or (mutli adj1 window adj1 circuit)) and PLL	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 10:23
S71	1	("7030711").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2009/06/10 10:25
S72	112	(VCO near (tuning or calibration)) same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 10:44

S73	0	(VCO near (tuning or calibration)) same threshold same (band near (select\$4 or switching))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 10:44
S74	18	(VCO near (tuning or calibration)) same threshold and (band near (select\$4 or switching))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 10:44
S75	7	("5382922"   "6175282"   "6275115"   "6483387"   "6747519"   "6778024").PN. OR ("6949981").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/10 10:47
S76	1	VCO same PLL same (control adj point) same amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 11:26
S77	3	PLL same (control adj point) same amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 11:26
S78	2	PLL same (control adj point) same (loop adj filter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 11:26
S79	2	PLL and (control adj point) same (loop adj filter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 11:27
S80	2	(control adj point) same (loop adj filter) same amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 11:27
S81	2754	(loop adj filter) with amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 11:28



S82	2	(loop adj filter) with amplifier same (control adj point)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 11:28
S83	696	(loop adj filter) with amplifier same (VCO)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 11:29
S84	52	(loop adj filter) with amplifier same (VCO) same (tuning or calibration)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 11:29
S85	30	(loop adj filter) with amplifier same (VCO) same (tuning or calibration) and @ad<="20031023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 11:29
S86	958	PLL and (charge adj pump) same (charg\$4) same (discharg \$3) and @ad<="20031023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 11:50
S87	0	PLL and (charge adj pump) same (charg\$4) same (discharg \$3) same (VCO near (tuning or calibration)) and @ad<="20031023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 11:51
S88	16	PLL and (charge adj pump) same (charg\$4) same (discharg \$3) and (VCO near (tuning or calibration)) and @ad<="20031023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 11:51
S89	4890	(charge adj pump) with (loop adj filter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 11:55
S90	3070	(charge adj pump) with (loop adj filter) same (vco)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 11:55

S91	38	(charge adj pump) with (loop adj filter) same (vco) same narrow	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 11:55
S92	1	(charge adj pump) with (loop adj filter) with passive same (vco) same narrow	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 11:57
S93	68	(charge adj pump) with (loop adj filter) with passive	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 11:57
S94	35	(charge adj pump) with (loop adj filter) with passive same VCO	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 11:57
S95	5	(charge adj pump) with (loop adj filter) with passive same (charg\$5) same (discharg\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 12:01
S96	5	(charge adj pump) with (loop adj filter) with passive same (charg\$4) same (discharg\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 12:01
S97	7	(charge adj pump) same (loop adj filter) with passive same (charg\$4) same (discharg\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/10 12:02

### EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L18	6	(PLL same (switch\$5 with band)) same (threshold with (range or window))	USPAT; UPAD	OR	ON	2010/01/07 17:06

L19	0	pll and (narrow-band or narrow\$2band or narrow adj1 band) and VCO and (amplitude near window) with (high\$3 or upper) same (low\$3 or low)	USPAT; UPAD	OR	ON	2010/01/07 17:11
L20	0	pll and (narrow-band or narrow\$2band or narrow adj1 band or (narrow adj range)) and VCO and (amplitude near window) with (high\$3 or upper) same (low\$3 or low)	USPAT; UPAD	OR	ON	2010/01/07 17:11
L21	0	pll and compar\$5 with (amplitude near window) with (high\$3 or upper) same (low\$3 or low) same control	USPAT; UPAD	OR	ON	2010/01/07 17:11
L22	0	(pll same (narrow\$3 with window)).clm.	USPAT; UPAD	OR	ON	2010/01/07 17:12

1/ 7/ 2010 5:12:36 PM

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